

Interdisciplinary Graduate School of Engineering Sciences

	Course Title	Lecturer	Term	Language	Course Day	Course Period	Campus	Credits	Course Structure	Course Requirement	Remarks	Syllabus
1	Basic Optical Device System	Hamamoto	Spring Quarter (first quarter : Apr.-Jun.)	English	Mon.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
2	Advanced Topics of Energy, Environment and Materials I	Wang	First Semester (Apr-Sep)	English	Mon.	Period 2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
3	Semiconductor Physics	K.Yamamoto	Spring Quarter (first quarter : Apr.-Jun.)	English	Mon.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.		
4	Radiation Science and Engineering	Kin	Spring Quarter (first quarter : Apr.-Jun.)	English	Mon.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.		
5	Communication Skills in English	Arina	First Semester (Apr-Sep)	English	Mon.	Period 3	Chikushi	2 credits	Lecture	Priority to IGSES students.		
6	Professional English Communication	Nick	First Semester (Apr-Sep)	English	Mon.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
7	Basic General Chemistry I	Furuno	Spring Quarter (first quarter : Apr.-Jun.)	English	Mon.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
8	Advanced Engineering Thermodynamics I	Kyaw Thu	Spring Quarter (first quarter : Apr.-Jun.)	English	Tue.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
9	Advanced Topics of Energy, Environment and Materials II	Mitsuhara	First Semester (Apr-Sep)	English	Tue.	Period 2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
10	Essential Points of Interdisciplinary Engineering Sciences	Yamamoto	Spring Quarter (first quarter : Apr.-Jun.)	English	Tue.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
11	Advanced Optical Device System	Hattori	First Semester (Apr-Sep)	English	Wed.	Period 3	Chikushi	2 credits	Lecture	Priority to IGSES students.		
12	Communication Skills in English	Arina	First Semester (Apr-Sep)	English	Mon.	Period 3	Chikushi	2 credits	Lecture	Priority to IGSES students.		
13	Communication Skills in English	Arina	First Semester (Apr-Sep)	English	Wed.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
14	Advanced IoT Devices	Wang	Spring Quarter (first quarter : Apr.-Jun.)	English	Wed.	Period 5	Chikushi	2 credits	Lecture	Priority to IGSES students.		

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15	Data Analysis	Moon	Spring Quarter (first quarter : Apr.-Jun.)	English	Thu.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
16	Basic Organic Chemistry I	Furuno	Spring Quarter (first quarter : Apr.-Jun.)	English	Thu.	Period 4	Chikushi	1 credit	Lecture	Priority to IGSES students.		
17	Introduction to Machine Learning Applications	Hasegawa	First Semester (Apr-Sep)	English	Thu.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
18	Sustainable Development and Climate Change Mitigation	Farzaneh	Spring Quarter (first quarter : Apr.-Jun.)	English	Thu.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
19	Modeling and Simulation	Ikegaya	Spring Quarter (first quarter : Apr.-Jun.)	English	Fri.	Period 1-2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
20	Communication Skills in English	Kevin	First Semester (Apr-Sep)	English	Fri.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
21	Professional English Communication	Nick	First Semester (Apr-Sep)	English	Fri.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
22	Communication Skills in English	Kevin	First Semester (Apr-Sep)	English	Fri.	Period 5	Chikushi	2 credits	Lecture	Priority to IGSES students.		
23	Basic Simulation Physics	Kasuya	Summer Quarter (second quarter : Jun.-Aug.)	English	Mon.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.		
24	Basic General Chemistry II	Furuno	Summer Quarter (second quarter : Jun.-Aug.)	English	Mon.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
25	Advanced Engineering Thermodynamics II	Kyaw Thu	Summer Quarter (second quarter : Jun.-Aug.)	English	Tue.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
26	Thermal Energy Utilization Systems I	Miyazaki	Summer Quarter (second quarter : Jun.-Aug.)	English	Tue.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
27	Space Plasma Physics	Mastukiyo	Summer Quarter (second quarter : Jun.-Aug.)	English	Thu.	Period 1-2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
28	Mathematical Analysis of Environmental Systems	Tanimoto	Summer Quarter (second quarter : Jun.-Aug.)	English	Thu.	Period 1-2	Chikushi	2 credits	Lecture	Priority to IGSES students.		

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29	Industrial Structure of Japan	Ichihara	Summer Quarter (second quarter : Jun.-Aug.)	English	Thu.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.	Plus, mandatory to participate in Fields Trip (The date will be announced later)	
30	Basic Organic Chemistry II	Furuno	Summer Quarter (second quarter : Jun.-Aug.)	English	Thu.	Period 4	Chikushi	1 credit	Lecture	Priority to IGSES students.		
31	Research Seminar on Energy and Environmental Science and Engineering	Wang	Summer Quarter (second quarter : Jun.-Aug.)	English	Thu.	Period 4-5	Chikushi	2 credits	Lecture	Priority to IGSES students.		
32	IoT Device Basics	Yoshitake	Summer Quarter (second quarter : Jun.-Aug.)	English	Fri.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
33	Microclimatology and Boundary Layer Climatology I	Hagishima	Fall Quarter (third quarter : Oct.-Nov.)	English	Mon.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
34	Advanced Topics of Energy, Environment and Materials I	Wang	Second Semester (Oct-Mar)	English	Mon.	Period 2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
35	Advanced Topics of Energy, Environment and Materials II	Mitsuhara	Second Semester (Oct-Mar)	English	Mon.	Period 3	Chikushi	2 credits	Lecture	Priority to IGSES students.		
36	Fundamentals on Green Engineering	Hagishima	Second Semester (Oct-Mar)	English	Mon.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
37	Basic General Chemistry I	Furuno	Fall Quarter (third quarter : Oct.-Nov.)	English	Mon.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
38	Thermal Energy Utilization Systems II	Miyazaki	Fall Quarter (third quarter : Oct.-Nov.)	English	Tue.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
39	Introduction to Computational Fluid Dynamics	Hu	Fall Quarter (third quarter : Oct.-Nov.)	English	Tue.	Period 2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
					Fri.	Period 2						

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40	Essential Points of Interdisciplinary Engineering Sciences	Yamamoto	Fall Quarter (third quarter : Oct.-Nov.)	English	Tue.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
41	Fundamentals of Opto-Electronics	Hamamoto	Second Semester (Oct-Mar)	English	Wed.	Period 1	Chikushi	2 credits	Lecture	Priority to IGSES students.		
42	Physical Property of Polymer Material II	Spring	Second Semester (Oct-Mar)	English	Wed.	Period 2	Chikushi	2 credits	Lecture	Priority to IGSES students.		
43	Introduction to Plasma Application	Hayashi	Fall Quarter (third quarter : Oct.-Nov.)	English	Wed.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
44	Water Resources and Environmental Engineering	Osama	Fall Quarter (third quarter : Oct.-Nov.)	English	Wed.	Period 3-4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
45	Introductory Writing Course in Basic English	Arina	Second Semester (Oct-Mar)	English	Wed.	Period 3	Chikushi	2 credits	Lecture	Priority to IGSES students.		
46	Introductory Writing Course in Advanced English	Arina	Second Semester (Oct-Mar)	English	Wed.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
47	Nanofabrication and Nanogrowth I	Yuichi Harada	Fall Quarter (third quarter : Oct.-Nov.)	English	Thu.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
48	Basic Organic Chemistry I	Furuno	Fall Quarter (third quarter : Oct.-Nov.)	English	Thu.	Period 4	Chikushi	1 credit	Lecture	Priority to IGSES students.		
49	Fudanebtals of Japanese Communication	Koyama	Second Semester (Oct-Mar)	English Japanese	Thu.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students. Doctoral students only.		
50	Communication Skills in Japanese	Koyama	Second Semester (Oct-Mar)	English Japanese	Thu.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students. Master's students only.		
51	Fusion Reactor System Engineering	Katayama	Fall Quarter (third quarter : Oct.-Nov.)	English	Fri.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
52	Energy Systems Analysis I	Farzaneh	Fall Quarter (third quarter : Oct.-Nov.)	English	Fri.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.		
53	Practical Research Skills Development	Yuichi Harada	Fall Quarter (third quarter : Oct.-Nov.)	English	Fri.	Period 4-5	Chikushi	2 credits	Lecture	Priority to IGSES students.		

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54	Professional English Communication	Nick	Second Semester (Oct-Mar)	English	Fri.	Period 4	Chikushi	2 credits	Lecture	Priority to IGSES students.		
55	Microclimatology and Boundary Layer Climatology II	Hagishima	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Mon.	Period 1	Chikushi	1 credit	Lecture	Priority to IGSES students.		
56	Basic General Chemistry II	Furuno	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Mon.	Period 5	Chikushi	1 credit	Lecture	Priority to IGSES students.		
57	Nanofabrication and Nanogrowth II	Yip	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Wed.	Period 2	Chikushi	1 credit	Lecture	Priority to IGSES students.		
58	Basic Organic Chemistry II	Furuno	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Thu.	Period 4	Chikushi	1 credit	Lecture	Priority to IGSES students.		
59	Research Seminar on Energy and Environmental Science and Engineering	Wang	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Thu.	Period 4-5	Chikushi	2 credits	Lecture	Priority to IGSES students.		
60	Energy Systems Analysis II	Farzaneh	Winter Quarter (fourth quarter : Dec.-Feb.)	English	Fri.	Period 3	Chikushi	1 credit	Lecture	Priority to IGSES students.		
61	Structural Ceramics Materials	JANG	Intensive Course	English	TBA	TBA	Chikushi	1 credit	Lecture	Priority to IGSES students.		
62	Special Lecture on Plasma and Quantum Science and Engineering I	PETERSON	Intensive Course	English	TBA	TBA	Chikushi	2 credits	Lecture	Priority to IGSES students.		
63	Conference Design & Organizing	Osama	Full Year	English	Thu.	Period 2	Chikushi	1 credit	Other	Priority to IGSES students.		
64	Exercise of Project Management	Narikawa	Intensive Course	English	TBA	TBA	Chikushi	1 credit	Lecture	Priority to IGSES students.		